

ProPolymers PAA 5000

Polyamide Copolymer

ProPolymers Inc.

Message:

PAA 5000 is a 50% reinforced aromatic nylon copolymer. It has very high stiffness and strength similar to PPA. It can be processed in water heated tools and provides excellent surface finish. It is commonly used in metal and die cast replacement applications.

General Information				
Filler / Reinforcement		Filler, 50% filler by weight		
Features		Excellent appearance		
		Aroma		
		Rigidity, high		
		Copolymer		
		Heat resistance, high		
Uses		Metal substitution		
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.56	1.56	g/cm ³	ASTM D792
Molding Shrinkage				ASTM D955
Flow	0.15	0.15	%	ASTM D955
Transverse flow	0.95	0.95	%	ASTM D955
Water Absorption (24 hr)	0.45	0.45	%	ASTM D570
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Strength (Yield)	234	197	MPa	ASTM D638
Tensile Elongation				ASTM D638
Yield	3.0	4.0	%	ASTM D638
Fracture	3.0	4.0	%	ASTM D638
Flexural Modulus	14500	11700	MPa	ASTM D790
Flexural Strength	379	310	MPa	ASTM D790
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact	130	110	J/m	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ASTM D648
0.45 MPa, not annealed	243	243	°C	ASTM D648
1.8 MPa, not annealed	238	238	°C	ASTM D648
Vicat Softening Temperature	249	249	°C	ASTM D1525
CLTE - Flow	1.4E-5	1.4E-5	cm/cm/°C	ASTM D696

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection.All rights belong to the original authors. If any

infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

